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NOTICE OF ALLOWANCE AND FEE(S) DUE

23389

7590

01/12/2009

SCULLY SCOTT MURPHY & PRESSER, PC 400 GARDEN CITY PLAZA SUITE 300 GARDEN CITY, NY 11530

EXAMINER				
VU, TU	JAN A			
ART UNIT	PAPER NUMBER			
2193				

DATE MAILED: 01/12/2009

Į	10/673 587	09/29/2003		VOR020030317US1	1607
١	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.

TITLE OF INVENTION: ACHIEVING AUTONOMIC BEHAVIOR IN AN OPERATING SYSTEM VIA A HOT-SWAPPING MECHANISM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/13/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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10/673,587 ITLE OF INVENTION:	09/29/2003 : ACHIEVING AUTON	OMIC BEHAVIOR IN A	Jonathan Appavoo AN OPERATING SYSTE	M VIA A HOT-SW		r920030317US1 G ME&HANISM	160)7
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUI	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DAT	E DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	04/1	3/2009
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TT	507	
(16856)	1607	
23389 7590 01/12/2009 EXAMINER		
SCULLY SCOTT MURPHY & PRESSER, PC		
	NUMBER	
SUITE 300 GARDEN CITY, NY 11530 DATE MAIL ED: 01/12/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 940 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 940 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Annlication No.	Applicant/s)	
	Application No.	Applicant(s)	
Notice of Allowability	10/673,587	APPAVOO ET AL.	
Notice of Allowability	Examiner	Art Unit	
	TUAN A. VU	2193	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED or other appropriate coming GHTS. This application is	in this application. If not included nunication will be mailed in due course.	
1. This communication is responsive to <u>11/14/08</u> .			
2. ☑ The allowed claim(s) is/are <u>1-24</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	been received. been received in Applica	tion No	m the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached E	XAMINER'S AMENDMENT or NOTICE	
5. CORRECTED DRAWINGS (as "replacement sheets") mus			
(a) ☐ including changes required by the Notice of Draftspers		ew (PTO-948) attached	
	-	ew (1 10-540) attached	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.	s Amendment / Comment		of
each sheet. Replacement sheet(s) should be labeled as such in t	he header according to 37	CFR 1.121(d).	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			Э
Attachment(s)	5 D Nation of	Information Defeat Application	
1. Notice of References Cited (PTO-892)		Informal Patent Application	
 Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO/SB/08), 	Paper N	Summary (PTO-413), p./Mail Date 's Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit		's Statement of Reasons for Allowance	
of Biological Material	9.		

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DETAILED ACTION

1. This action is responsive to the Applicant's response filed 11/14/08. As indicated in Applicant's response, claims 1, 10, 13-18 have been amended. Claims 1-24 are pending in the office action.

EXAMINER'S AMENDMENT

2. The Application has been amended as following.

In the Response submitted as per 11/14/08, there appears to be some minor syntactic impropriety in the claims and that will be amended as follows.

In the CLAIMS:

Claim 10 (1st paragraph):

A system for swapping code in a computer system including an operating system, said operating system including at least one code component and providing continual availability of hardware resources by applications operational in the computer system, the system comprising one or more processing processors units configured for:

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

- 3. As amended, claims 1, 10, 18 include additional features that render the claimed subject matter not obvious over that of co-pending Application 11/227,761; hence the Double Patenting Rejection as per the last Previous Office Action is herein withdrawn.
- 4. Claims 1-24 are allowed.

The following is an examiner's statement of reasons for allowance.

The prior art taken separately or jointly does not suggest or teach the following features.

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A computer method for replacing first code component with a new code component while providing continual operating system hardware resources via the first code component, the method comprising: (i) instantiating the new code component, a mediator object, and a swapping operation, using for the duration of the swapping operation the mediator object to intercept calls from the applications requesting the first code component to perform functions, and using the mediator object to perform the requested functions, (ii) establishing a quiescent state for the first code component then transferring state from the first code component to the new code component, (iii) swapping by identifying references to said first code component and replacing said references with references to said new code component, prior to de-allocating the first code component; as recited in claim 1, 10, 18.

Swingline, USPN: 6,219,690, discloses mutual exclusion algorithms using call-back processor with dynamic context structures to track and update references related to existing threads, whereby enabling redirection of memory access operations via establishing of a quiescent state based on said contexts; but fails to teach or suggest swapping first code with new code component while maintaining OS/hardware resources availability to applications serviced by the first code component, wherein the swapping includes mediator object instantiated as in (i) and used all throughout the swapping process to intercept and service existing calls to the first code component; whereby the swapping operation establishes a quiescent state enabling transferring of references as in (ii), and replaces the identified references to the first component with references to the new component as set forth and (iii).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A. Vu whose telephone number is (571) 272-3735. The examiner can normally be reached on 8AM-4:30PM/Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lewis Bullock can be reached on (571)272-3759.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-3735 (for non-official correspondence - please consult Examiner before using) or 571-273-8300 (for official correspondence) or redirected to customer service at 571-272-3609.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Tuan A Vu/

Primary Examiner, Art Unit 2193

January 03, 2009